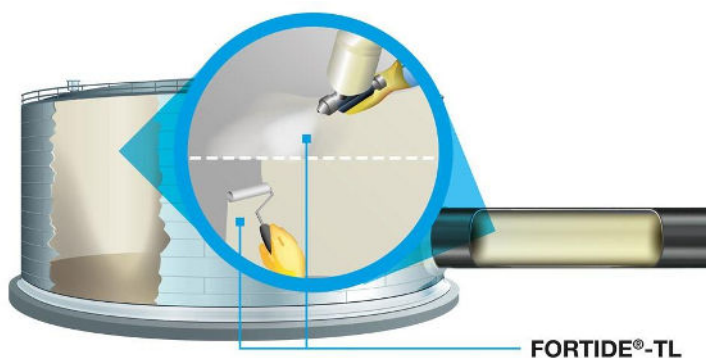


# FORTIDE®-TL

Product information



## Two-component epoxy internal coating for tanks and pipelines.



### Specific advantages:



For operating temperatures up to +120 °C (+248 °F).



Fulfils ISO21809-3, type 18-A.



Free from volatile solvents and isocyanates.



Brush or spray application



Exceptional chemical resistance.

## Product description

**FORTIDE®-TL** is an epoxy internal coating which has been specially designed for tank and pipeline systems, with **outstanding chemical and water resistance**.

FORTIDE®-TL features **outstanding hardness** while also providing **good abrasion resistance**.

The **broad range** of **chemical resistance** extends from crude oil

through different hydrocarbons, process and wastewater to acids, lyes and brines.

The product is available in both spray and brush variants.

The isocyanate- and solvent-free system ensures **compliance with the most stringent environmental and health and safety requirements**.

FORTIDE®-TL fulfils the requirements of **ISO 21809-3, type 18A**. The coating's durability is a result of its **outstanding chemical resistance** combined with **exceptional hardness**.

FORTIDE®-TL is available in different package sizes, which means that a practical and economical size is available depending on the requirements of the project.

## Typical product properties

Property		Unit	Typical value	Required value	Test method
Type		-	two components	-	ISO 21809-3
Colour		-	cream white	-	
Recommended minimum layer thickness		µm	≥ 600	-	
Theoretical consumption for 600 µm DFT		kg/m <sup>2</sup> l/m <sup>2</sup>	0.84 0.62	-	
Indentation resistance (10 N/mm <sup>2</sup> , stamp-Ø 1.8mm)	+120 °C (+248 °F)	% of the original thickness	≤ 10	≤ 30	
Cathodic disbondment	+23 °C (+73 °F)	mm	≤ 2	≤ 8	
	+95 °C (+203 °F)		≤ 8	≤ 15	
Hardness	+23 °C (+73 °F)	Shore D	≥ 80	-	
Adhesion	EP on steel	MPa	≥ 15	≥ 10	
	EP on EP				
Adhesion after hot water immersion (28 d / +95 °C / +203 °F)	EP on steel		≥ 11	≥ 7	
	EP on EP		≥ 11	≥ 2	

## Processing conditions

Ambient and substrate temperature approx.		+10 °C (+50 °F)	+20 °C (+68 °F)	+40 °C (+104 °F)
Small package (brush variant)	Pot life (250 g total mass)	approx. 2.5 h	approx. 37 min.	approx. 10 min.
	Tack-free	approx. 5 h	approx. 2.5 h	approx. 45 min.
	durable	approx. 24 h	approx. 10 h	approx. 3 h
<b>Hot airless spray application</b>				
Ambient and substrate temperature approx.		+10 °C (+50 °F)	+20 °C (+68 °F)	+55 °C (+131 °F)
Hobbock (hot airless spraying)	Tack-free	approx. 4 h	approx. 2 h	approx. 20 min.
	durable	approx. 21 h	approx. 5 h	approx. 2 h
<b>General processing conditions</b>				
Processing temperature	Substrate	≥ +10 °C (≥ +50 °F); min. +3 °C (+5.4 °F) above the dew point		
	Environment	-40 °C to +50 °C (-40 °F to +122 °F)		
Steel surface	Degree of cleanliness (ISO 8501-1)	min. Sa 2 ½		
	surface roughness (ISO 8503-1)	40 – 100 µm		
Relative humidity		≤ 80 %		

## Ordering information and packaging

Product name	Component Packaging	Contents per package approx.		Content per box
		[l]	[kg]	[pcs.]
<b>FORTIDE®-TL 0.8 l Kit</b>	<b>Comp. A / B (cans)</b>	0.6 / 0.2	0.9 / 0.2	12 / 12
<b>FORTIDE®-TL 1.2 l Kit</b>	<b>Comp. A / B (cans)</b>	0.9 / 0.3	1.3 / 0.3	8 / 8
<b>FORTIDE®-TL</b>	<b>Comp. A / B (hobbock)</b>	29 / 29	42 / 30	-
	<b>Comp. A / B (barrel)</b>	207 / 207	304 / 215	-

## Storage

**FORTIDE®-TL** can be stored in its unopened original packaging for at least 12 months from the date of manufacture. Storage temperature: +5 °C (+41 °F) to +30 °C (+86 °F). Store in a dry and frost-free location.

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